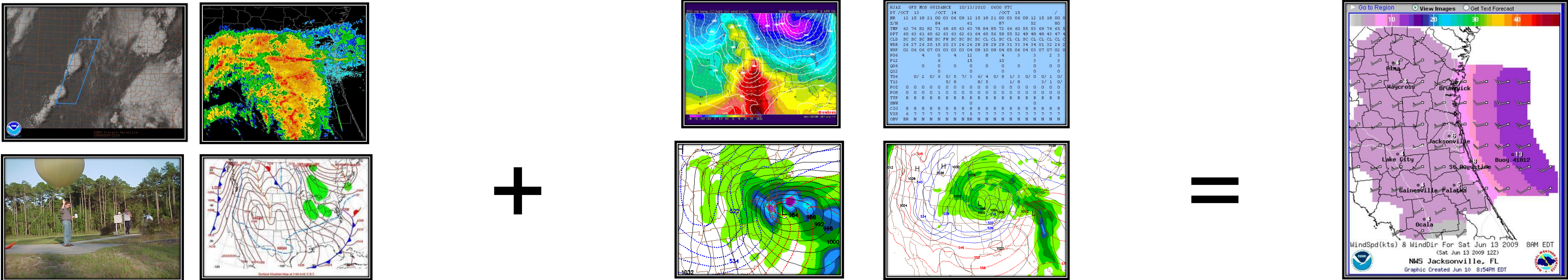


YOUR NATIONAL WEATHER SERVICE FORECAST

HOW THE NWS FORECASTS THE WEATHER FOR YOUR AREA



Analyze current conditions

- What is happening now?
- What's causing current weather?

Examine various computer models

- Which model best handles current weather?
- What's the consensus forecast for all models?

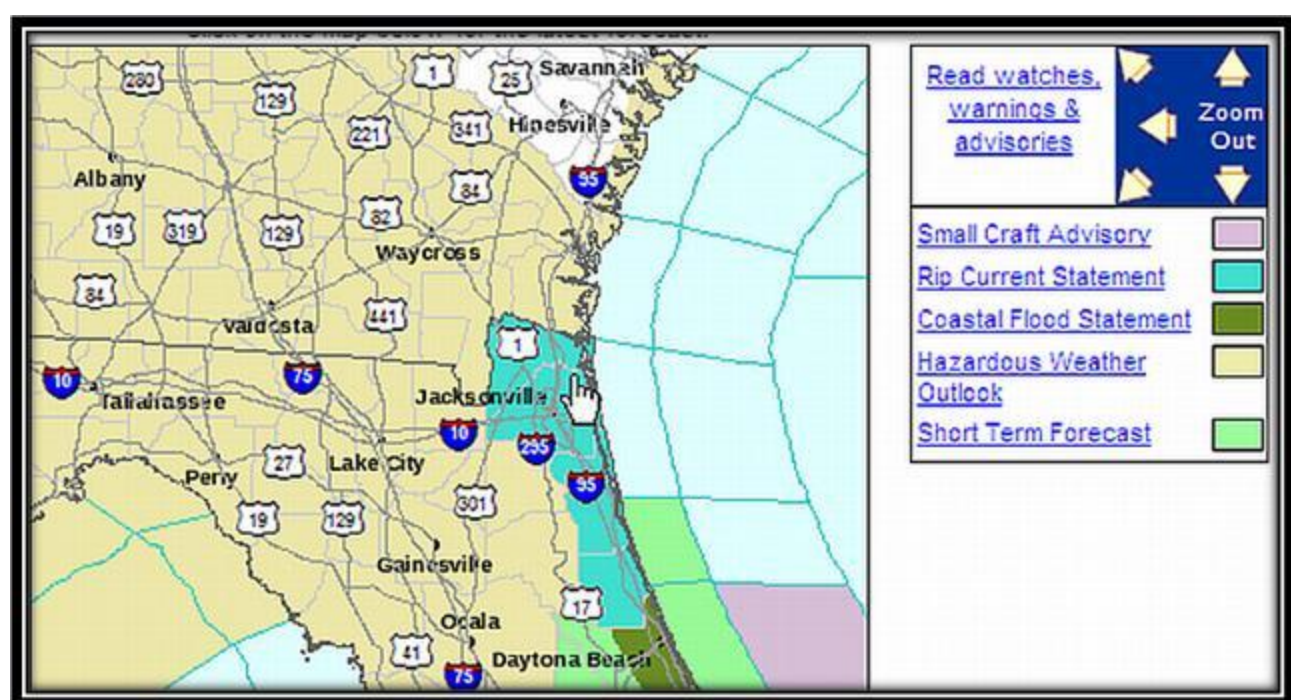
Design the official forecast

- Graphically design forecast every 12 hrs
- Generate text and tables from graphics

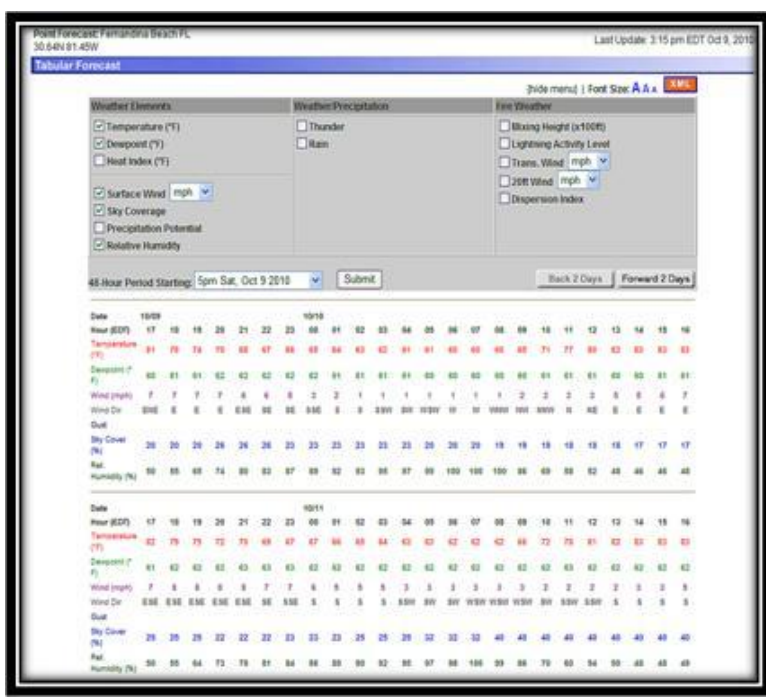
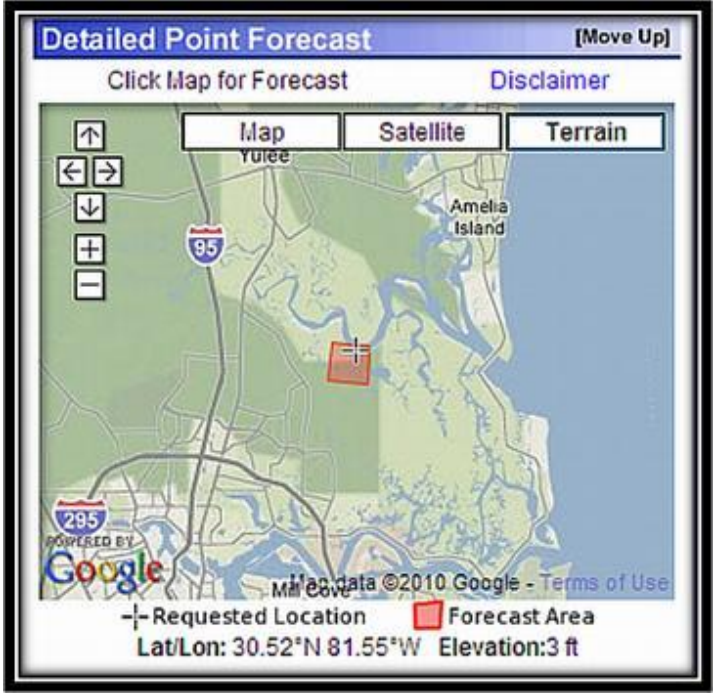
FLZ024-025-033-038-132100-
NASSAU-DUVAL-ST JOHNS-FLAGLER-
INCLUDING THE CITIES OF...FERMANDINA BEACH...JACKSONVILLE...
ST AUGUSTINE...PALM COAST
409 AM EDT WED OCT 13 2010

.TODAY...MOSTLY SUNNY. HIGHS IN THE MID 80S. SOUTHWEST WINDS 5 TO 10 MPH.
.TONIGHT...PARTLY CLOUDY. LOWS IN THE LOWER 60S. SOUTH WINDS 5 MPH BECOMING WEST AFTER MIDNIGHT.
.THURSDAY...PARTLY CLOUDY. PATCHY FOG IN THE MORNING. HIGHS IN THE MID 80S. WEST WINDS 5 TO 10 MPH.
.THURSDAY NIGHT...CLEAR. LOWS 54 TO 59 INLAND...AROUND 60 COAST. NORTHWEST WINDS 5 TO 10 MPH.
.FRIDAY...SUNNY. HIGHS IN THE UPPER 70S. NORTHWEST WINDS 5 TO 10 MPH.
.FRIDAY NIGHT...CLEAR. LOWS 53 TO 58.
.SATURDAY...MOSTLY SUNNY. HIGHS IN THE UPPER 70S.
.SATURDAY NIGHT...CLEAR. LOWS 53 TO 58.
.SUNDAY AND SUNDAY NIGHT...MOSTLY CLEAR. HIGHS IN THE UPPER 70S. LOWS 56 TO 61.
.MONDAY THROUGH TUESDAY...PARTLY CLOUDY. HIGHS IN THE UPPER 70S. LOWS 59 TO 64.

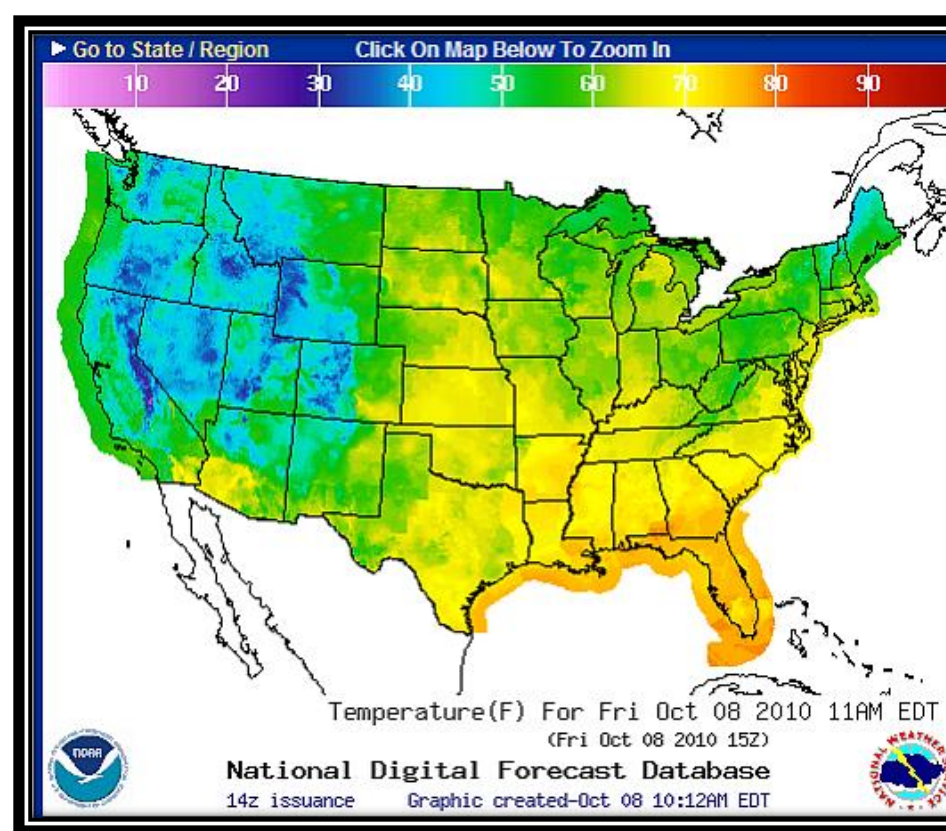
NWS PUBLIC FORECASTS ARE A CLICK AWAY: WWW.WEATHER.GOV/JAX



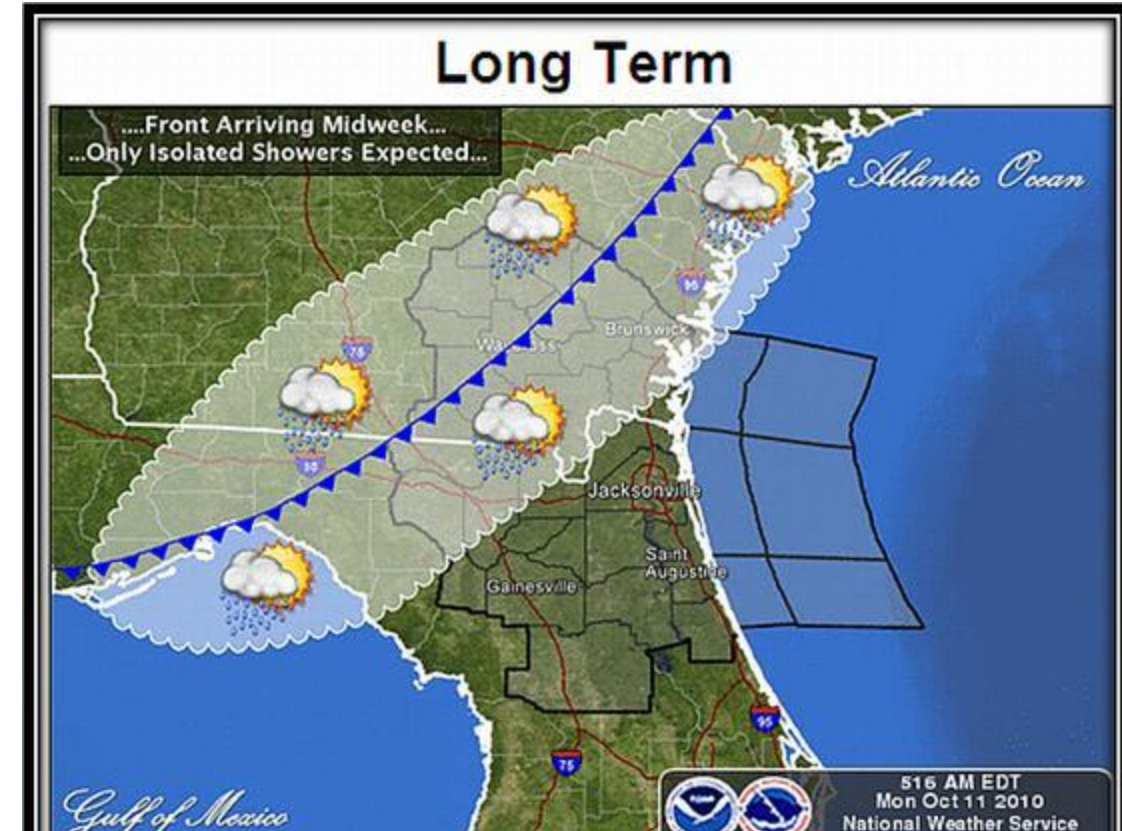
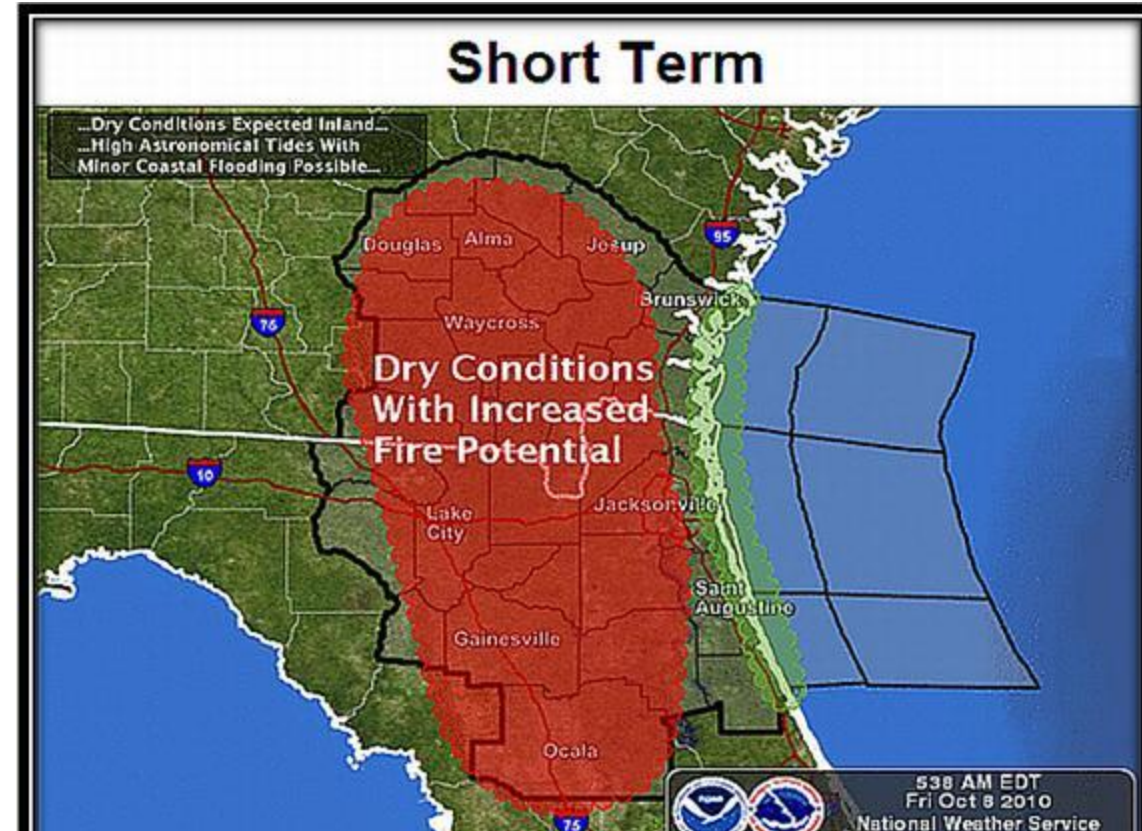
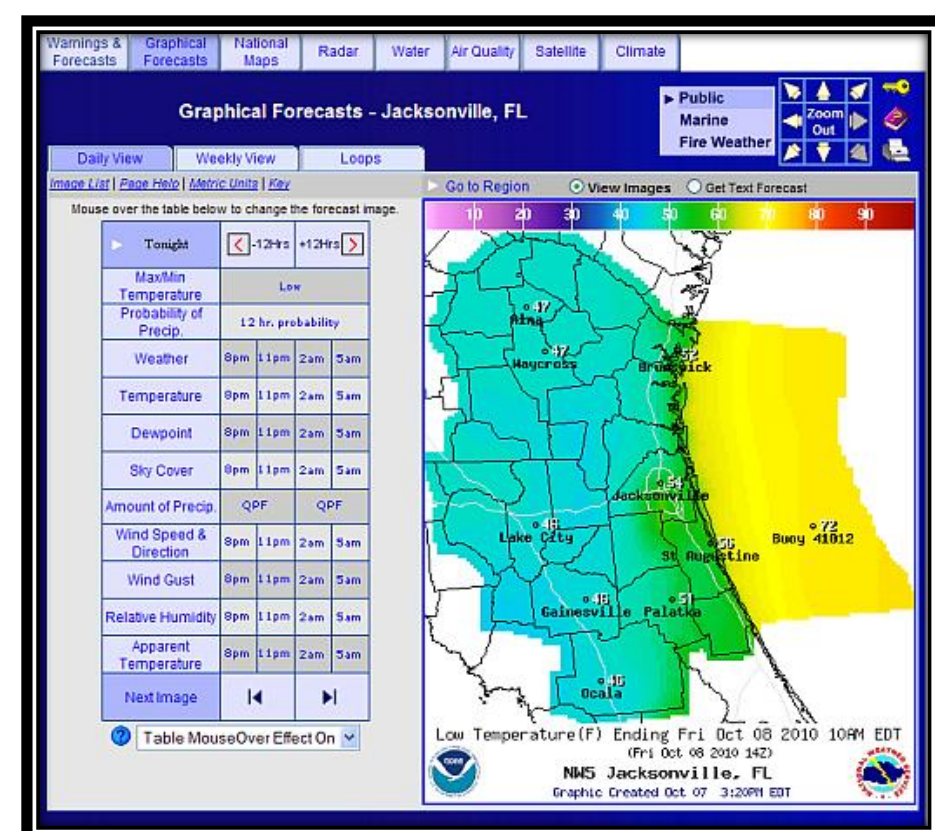
Click on the area of interest to get a 7-day forecast



Hourly tabular forecasts



Local/National Graphical Forecast images



Graphiccasts: Graphical Forecast Highlights

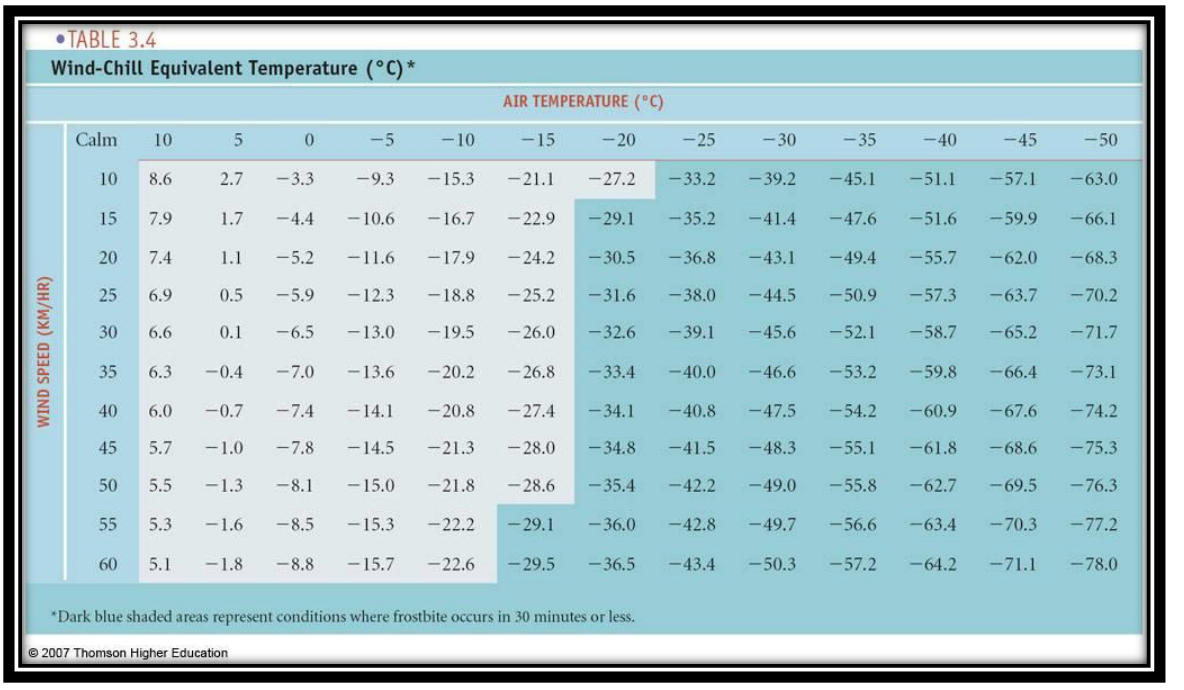
Common NWS Public Forecast Watches, Warnings, Advisories

NWS Non-Precipitation Products	
Product Name	Definition
Dense Fog Advisory	Widespread visibilities $\leq \frac{1}{2}$ mile in fog
Heat Advisory	Heat Index 110-114 °F Extended to nighttime if min ≥ 76 °F
Excessive Heat Warning	Heat Index ≥ 115 °F
Frost Advisory	Widespread frost expected SE Gas: Issued until the first hard freeze, then resume after March 1 st . NE FI: Issued year round
Freeze Watch & Warning	Temperature ≤ 32 °F for ≥ 2 hours (watch-possible; warning-imminent) SE Gas: Issued until the first hard freeze, then resume after March 1 st .
Hard Freeze Watch & Warning	Temperature ≤ 27 °F for ≥ 2 hours (watch-possible; warning-imminent)
Lake Wind Advisory	Wind speed 20-24 mph or Wind gust 30-39 mph
Wind Advisory	Wind speed 25-39 mph or Wind gust 40-57 mph
High Wind Warning	Wind speed sustained at 40 mph for ≥ 1 hour or Any non-convective wind gust ≥ 58 mph

NWS Precipitation-based Products	
Product Name	Definition
Winter Storm Watch	Potential for severe winter weather conditions within the watch area during the next 24-36 hour period.
Winter Storm Warning	Severe winter weather conditions (2+ inches of snow with 6 hours; heavy ice accumulation) expected or likely during the next 12-24 hour pd.
Winter Weather Advisory	Hazardous, but not necessarily life threatening, winter weather conditions (light ice or snow accumulations) expected in next 12-24 hour pd.
Freezing Rain Advisory	Hazardous, but not necessarily life-threatening, ice accumulations expected in next 12-24 hour period.
Ice Storm Warning	Potentially life-threatening accumulations of ice expected in the next 12-24 hour period.
Flood Watch	Potential for excessive rainfall in the next 12-48 hour period that could produce river flooding or flooding in low-lying or poor drainage areas.
Flash Flood Watch	Potential for excessive rainfall in the next 12-48 hour period that could produce life-threatening flash flood conditions.
Severe T-storm Watch	Potential for severe thunderstorms in or near the watch area during the next 1-3 hour period.
Tornado Watch	Potential for tornadoes or severe thunderstorms in or near the watch area during the next 1-6 hour period.

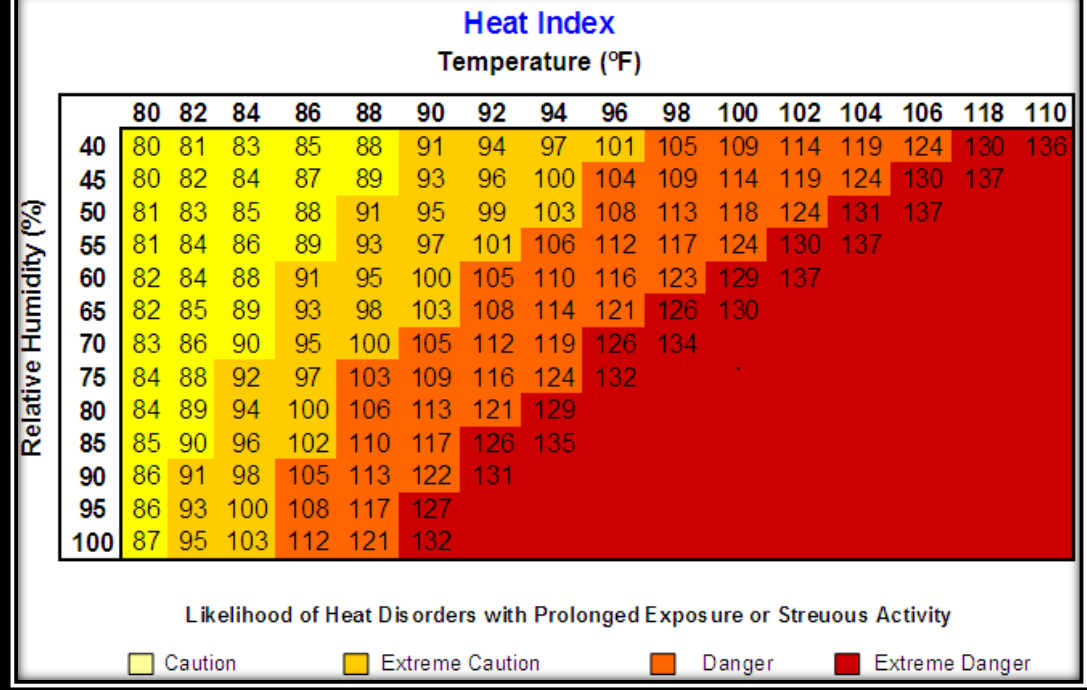
“Apparent” Temperature

Impact of other conditions on how a temperature “feels” to exposed skin.



WIND CHILL

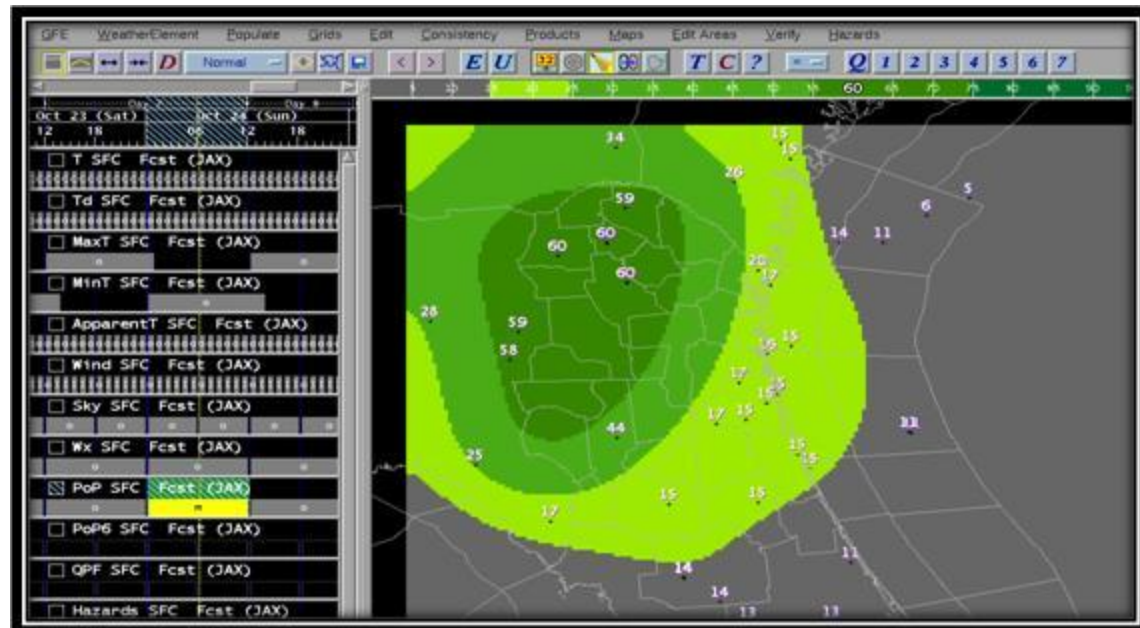
How windspeed makes a temperature “feel”.



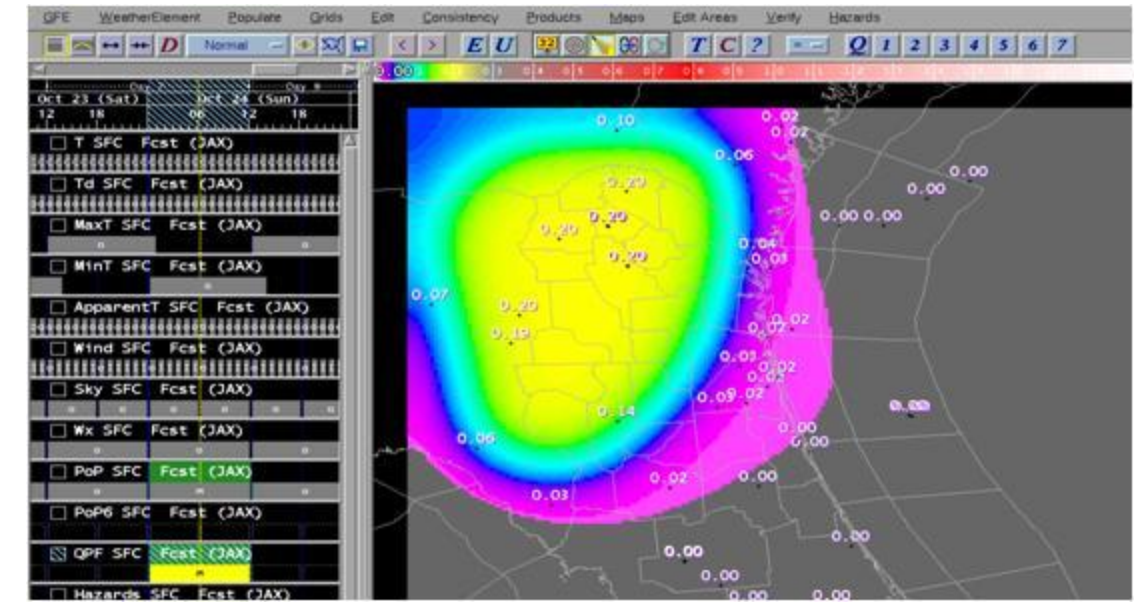
HEAT INDEX

How humidity makes a temperature “feel”.

Rain Chances/Amounts



Probability of Measurable Rain



Expected Rainfall Amount

What does “chance of rain” mean?

POP	Qualifying Term	Equivalent Areal Term (convective only)
10	SLIGHT CHANCE, or NONE	ISOLATED, or NONE
20	SLIGHT CHANCE	WIDELY SCATTERED
30, 40, or 50	CHANCE	SCATTERED
60 or 70	LIKELY	NUMEROUS
80, 90, or 100	NONE	NONE

It's the probability of measurable rainfall, at least 0.01 inch, during the specified 12- hr period.